Pre-Requisites:

The following services are used to complete the project:

- Watson Studio
- Machine Learning
- Cloud Object Storage
- IBM Watson IoT
- Node-Red

Link to Crop Recommendation Dataset:

https://github.com/https://www.kaggle.com/siddharthss/crop-recommendation-dataset

General Description

Nowadays number of people who were cultivating the crops getting decreased. People who were eating was increasing day by day. The main reason for this is most of the people who were interested in cultivation but unable to estimate what crop to be cultivated at a particular time. Due to this, most of them were not showing interest into this. To avoid such problems we are here to build a crop predictive system to sow in their field.

Novelty / Uniqueness:

Our novelty is to predict the crop yield more accurately by not only with sate and district names but also by analyzing the climate, weather, and soil parameters too.

By this, every person would be able to get to know what crop to be sowed in the field for a good and benefitable yield. So that, no one will have a chance to bear a loss. This helps them a lot as there will be no such wrong predictions made by human. For this, the only thing he needs to know is weather and soil conditions.

Technology Architecture:

IBM Cloud for storing the data on the cloud. Also It helps us to get the crop prediction form able to everyone i.e., an user interface(UI). IBM Auto AI and IBM Watson studio for getting a prediction model to our system by using machine learning models.

Link to our model:

https://node-red-scccv-2021-07-16.eu-gb.mybluemix.net/ui/#!/0?socketid=hNpCMdwlBsMjOsYoAAAA